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(72) Inventor: **Doneghue, Jeffrey A.**
Sherman, Illinois 62684 (US)

(74) Representative: **Wagner, Karl H., Dipl.-Ing. et al**
WAGNER & GEYER
Patentanwälte
Gewürzmühlstrasse 5
80538 München (DE)

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(71) Applicant: **EATON CORPORATION**
Cleveland, Ohio 44114-2584 (US)

(54) **Surge protected electrical power distribution system**

(57) An electrical power distribution system (2) includes a main disconnect unit (4) and a surge protector unit (6). The main disconnect unit (4) includes an electrical power bus (8) having a three-phase power bus and a neutral bus. The separable contacts (28,30,32) of a circuit breaker (9) are employed for interrupting current flowing in the three-phase power bus. The surge protector unit (6) includes an electrical power bus (10) having a corresponding three-phase power bus and a neutral bus. Three phase-to-neutral surge protectors (166,168,170) are employed for protecting downstream loads from surges or transients on the power buses. The electrical power bus (10) of the surge protector unit (6) electrically engages the electrical power bus (8) of the disconnect unit (4) to form a series electrical connection of the electrical power buses (8,10) for the loads.

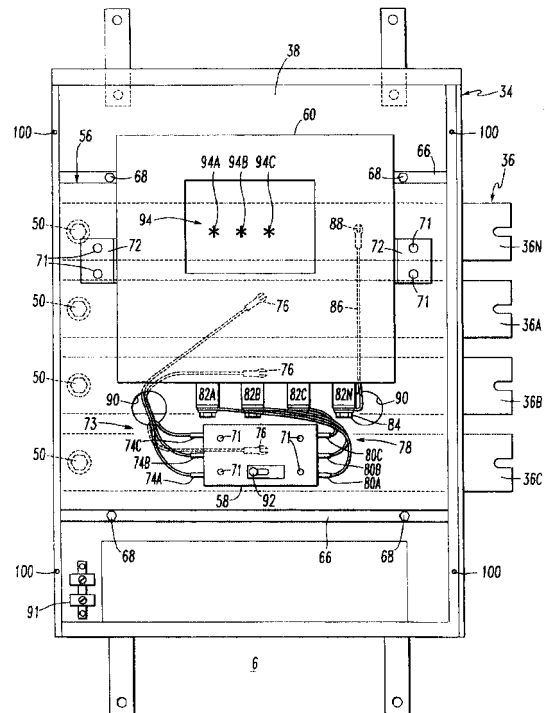


FIG. 4



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 5 541 808 A (BASTIAN ROBERT J) 30 July 1996 (1996-07-30)	1,2,4-7	H02B1/21 H02B1/20
A	* column 1, line 6 - line 44 * * column 2, line 6 - line 44 * * column 3, line 15 - line 25 * * column 4, line 39 - line 46 * * column 5, line 11 - column 6, line 52; figures 1-3,5 * -----	19	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H02B
Place of search	Date of completion of the search	Examiner	
THE HAGUE	28 October 2002	Castanheira Nunes, F	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1503 03 82 (P/AC01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 10 7506

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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28-10-2002

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5541808	A	30-07-1996	NONE

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82